

# ECOLOGICAL STABILITY AND SUSTAINABILITY

- Living systems maintain some degree of stability through constant change in response to environmental conditions through:
  - **Inertia** (persistence): the ability of a living system to resist being disturbed or altered.
  - **Constancy**: the ability of a living system to keep its numbers within the limits imposed by available resources.
  - **Resilience**: the ability of a living system to bounce back and repair damage after (a not too drastic) disturbance.

# Ecological Stability

**James R. Barnes, G. Wayne Minshall**



## **Ecological Stability:**

Ecological Stability Mícháél B. Úshér, M. H. Willíámsóh, University of York, 2013-11-21      **A Companion to the Philosophy of Biology** Sahotra Sarkar, Anya Plutynski, 2010-11-08 A COMPANION TO THE PHILOSOPHY OF BIOLOGY Sarkar is to be congratulated for assembling this talented team of philosophers who are themselves to be congratulated for writing these interesting essays on so many fascinating areas in philosophy of biology This book will be a wonderful resource for future work Elliot Sober University of Wisconsin Madison Many of the discussions here start with a definition of terms and a historical context of the subject before delving into the deeper philosophical issues making it a useful reference for students of biology as well as philosophy Northeastern Naturalist The topics that are addressed are done so well This book will appeal to the advanced student and knowledgeable amateur and may prove useful catalyst for discussion among research teams or those engaged in cross disciplinary studies Reference Reviews A Companion to the Philosophy of Biology offers concise overviews of philosophical issues raised by all areas of biology Addressing both traditional and emerging areas of philosophical interest the volume focuses on the philosophical implications of evolutionary theory as well as key topics such as molecular biology immunology and ecology Comprising essays by top scholars in the field this volume is an authoritative guide for professional philosophers historians sociologists and biologists as well as an accessible reference work for students seeking to learn about this rapidly changing field      *Ecological Sustainability and Integrity: Concepts and Approaches* J. Lemons, L. Westra, Robert Goodland, 2013-04-17 This book follows upon earlier work which culminated in the publication of two recent books Sustainable Development Science Ethics and Public Policy John Lemons and Donald A Brown editors and Perspectives on Ecological Integrity Laura Westra and John Lemons editors Both of these books also were published by Kluwer Academic Publishers In this book we seek to explore more fully the concepts of sustainability and ecological integrity as well as the connections between them We have divided chapters into three groups In the first the concept of sustainability in relation to science law and ethics is explored In the second concepts of sustainability and ecological integrity are applied to problems in specific natural resources Finally in the third group we examine possible approaches to public policy which might include concepts of sustainability and ecological integrity Overall we believe that this collection presents a wide variety of perspectives discussions and case studies John Lemons Laura Westra Robert Goodland Editors ix CONTENTS PART I Sustainability in Relation to Science Law and Ethics Chapter 1 The Concept of Sustainability A Critical Approach Lynton K Caldwell 1 Problems of Definition 2 2 Behavioral Obstacles 4 3 Psychological Obstacles Seven Deadly Sins of Unsustainability 8 4      *The Ecological and Societal Consequences of Biodiversity Loss* Michel Loreau, Andy Hector, Forest Isbell, 2022-03-15 The idea that changes in biodiversity can impact how ecosystems function has over the last quarter century gone from being a controversial notion to an accepted part of science and policy As the field matures it is high time to review progress explore the links between this new research area and fundamental

ecological concepts and look ahead to the implementation of this knowledge This book is designed to both provide an up to date overview of research in the area and to serve as a useful textbook for those studying the relationship between biodiversity and the functioning stability and services of ecosystems The Ecological and Societal Consequences of Biodiversity Loss is aimed at a wide audience of upper undergraduate students postgraduate students and academic and research staff

*The Philosophy of Ecology* James Justus, 2021-06-10 Introduces the philosophical issues which ecology poses about the biological world and the environmental sciences attempting to protect it

**Ecological Networks and Territorial Systems of Ecological Stability** László Miklós, Andrea Diviaková, Zita Izakovičová, 2018-08-13 This book provides a wealth of information for all those involved in using ecological networks for biodiversity protection and environmental management as well as their significance for planning It describes the concept of ecological networks and presents methods and real world examples of the use of a territorial system of ecological stability TSES in Slovakia at national regional and local levels including the assessment of the significance of biocentres biocorridors and interactive elements Using both a functional model for preserving the living conditions of habitats or preventing their collapse and the connectivity of biotopes in a landscape as an original type of ecological network based on landscape ecological principles TSES represents a modern concept of nature and biodiversity protection based on the principles of protection of the conditions and forms of biota

**Designing Low Carbon Societies in Landscapes** Nobukazu Nakagoshi, Jhonamie A. Mabuhay, 2014-05-09 This book focuses on three major means of achieving a low carbon society conservation of the ecosystem complex changes of arrangement of landscapes and creation of biodiversity There are specific countermeasures to be taken for carbon absorption in the three types of landscapes urban cultural and natural because their carbon balances differ Urban landscapes are promising sites because they have the potential for greening and the creation of biodiversity Cultural landscapes in the tropics had not been actively researched until recently but this book now presents a collection of several cases focused on those areas Natural landscapes had existed in abundance in developing countries later nature protection areas were designated to coexist with development Now however developmental pressure has penetrated into those nature protection areas and landscape ecological projects are urgently required to preserve them As a result of global warming abnormal weather phenomena including super typhoons have occurred frequently in recent years The major underlying cause is the higher concentration of greenhouse gases released by human activities As well major natural absorbers of CO<sub>2</sub> such as forests wetlands and coral reefs are shrinking and the human impact is causing the ecological balance to deteriorate Controlling CO<sub>2</sub> emissions and expanding the CO<sub>2</sub> absorbers are keys to reducing total CO<sub>2</sub> Low carbon societies can be established by maintaining the original CO<sub>2</sub> balance through integration of multiple tools with contributions from diverse fields such as physics and chemistry physiology and humanities and education On the basis of an international consensus the environment must be protected no matter what sacrifices are required As this book demonstrates

achieving a low carbon society is a top priority and landscape conservation is the first step in ecological research toward that goal

**Stream Ecology** James R. Barnes, G. Wayne Minshall, 2012-12-06 Most of the papers included here were part of the Plenary Symposium on The Testing of General Ecological Theory in Lotic Ecosystems held in conjunction with the 29th Annual Meeting of the North American Benthological Society in Provo Utah April 28 1981 Several additional papers were solicited from recognized leaders in certain areas of specialization in order to round out the coverage All of the articles have been critiqued by at least two or three reviewers and an effort was made to rely on authorities in stream and theoretical ecology In all cases this has helped to insure accuracy and to improve the overall quality of the papers However as one of our purposes has been to encourage thought provoking and even controversial coverage of the topics material has been retained even though it may upset certain critical readers It is our hope that these presentations will stimulate further research encourage the fuller development of a theoretical perspective among lotic ecologists and lead to the testing of general ecological theories in the stream environment

**General Ecology** Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Theoretical Ecology** Kevin S. McCann, Gabriel Gellner, 2020 Theoretical Ecology concepts and applications continues the authoritative and established sequence of theoretical ecology books initiated by Robert M May which helped pave the way for ecology to become a more robust theoretical science encouraging the modern biologist to better understand the mathematics behind their theories This latest instalment builds on the legacy of its predecessors with a completely new set of contributions Rather than placing emphasis on the historical ideas in theoretical ecology the Editors have encouraged each contribution to synthesize historical theoretical ideas within modern frameworks that have emerged in the last 10 20 years e g bridging population interactions to whole food webs describe novel theory that has emerged in the last 20 years from historical empirical areas e g macro ecology and finally to cover the rapidly expanding area of theoretical ecological applications e g disease theory and global change theory The result is a forward looking synthesis that will help guide the field through a further decade of discovery and development It is written for upper level undergraduate students graduate students and researchers seeking synthesis and the state of the art in growing areas of interest in theoretical ecology genetics evolutionary ecology and mathematical biology

**Restoration Ecology** Sigurdur Greipsson, 2011 The Earth's biodiversity is at risk as delicate ecosystems struggle to overcome global climate change rain forest destruction acid rain overfishing erosion and a host of other interconnected environmental problems Written for upper level undergraduate and graduate students Restoration Ecology addresses these growing environmental concerns and offers practical and economical solutions The text opens with a look at fundamental ecological principles critical to understanding restoration including nutrient cycling and factors that regulate ecosystems

function and continues on to explore restoration in practice providing real life accounts of the restoration of various disturbed ecosystems The final section delves into the planning implementation monitoring and appraisal of restoration work

**Book Jacket      *Ecological Sustainability of Fish Resources of Inland Waters of the Western Balkans* Vladica Simić, Snežana Simić, Vladimir Pešić, 2023-12-31** This book provides a detailed evaluation of the hydro ecological characteristics of the Western Balkans an area characterized by still preserved inland waters and fish resources important for the European continent as well as the biodiversity of inland waters important for the planet Earth Freshwater ecosystems cover only 1% of the Earth s surface however they are a habitat for about 40% of fish species At the same time inland fisheries make less than 12% of the world s global fish catch with 43% coming from low income and food deficient countries Africa South America Southeast Asia In Europe the Western Balkans have significant fishing waters and fish resources including the Middle Danube drainage Sava Drina Velika Morava river systems large ancient lakes Skadar Shkodra Ohrid Prespa Dojran and the Adriatic basin characterized by endemic and commercially important species However in contrast to the high fishing potential in a significant part of the Western Balkans diverse and specific political economic and social factors largely had a negative impact on the state of fish resources This volume is multidisciplinary and provides a sound knowledge base for scientific and practical fisheries In addition it may be a valuable guide for managers and conservationists worldwide to adapt methods and procedures for the ecological sustainability of fish resources under specific local natural and socio economic conditions Finally the content is a good reference for natural sciences and agriculture students studying fish fish resources and fisheries sciences It would improve their knowledge and perspectives on the challenges of sustainable use and conservation of inland water resources

***Seamounts* Tony J. Pitcher, Telmo Morato, Paul J. B. Hart, Malcolm R. Clark, Nigel Haggan, Ricardo S. Santos, 2008-04-15** Seamounts are ubiquitous undersea mountains rising from the ocean seafloor that do not reach the surface There are likely many hundreds of thousands of seamounts they are usually formed from volcanoes in the deep sea and are defined by oceanographers as independent features that rise to at least 0.5 km above the seafloor although smaller features may have the same origin This book follows a logical progression from geological and physical processes ecology biology and biogeography to exploitation management and conservation concerns In 21 Chapters written by 57 of the world s leading seamount experts the book reviews all aspects of their geology ecology biology exploitation conservation and management In Section I of this book several detection and estimation techniques for tallying seamounts are reviewed along with a history of seamount research This book represents a unique and fresh synthesis of knowledge of seamounts and their biota and is an essential reference work on the topic It is an essential purchase for all fisheries scientists and managers fish biologists marine biologists and ecologists environmental scientists conservation biologists and oceanographers It will also be of interest to members of fish and wildlife agencies and government departments covering conservation and management Supplementary material is available at [www.seamountsbook.info](http://www.seamountsbook.info)

The Philosophy of Biology Kostas Kampourakis, 2013-06-18 This book brings together for the first time philosophers of biology to write about some of the most central concepts and issues in their field from the perspective of biology education. The chapters of the book cover a variety of topics ranging from traditional ones such as biological explanation, biology and religion, or biology and ethics to contemporary ones such as genomics, systems biology, or evolutionary developmental biology. Each of the 30 chapters covers the respective philosophical literature in detail and makes specific suggestions for biology education. The aim of this book is to inform biology educators, undergraduate and graduate students in biology and related fields, students in teacher training programs, and curriculum developers about the current state of discussion on the major topics in the philosophy of biology and its implications for teaching biology. In addition, the book can be valuable to philosophers of biology as an introductory text in undergraduate and graduate courses. Introductory Ecology Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

**Agroforestry for Carbon and Ecosystem Management** Manoj Kumar Jhariya, Ram Swaroop Meena, Arnab Banerjee, Sandeep Kumar, Abhishek Raj, 2023-10-27 Agroforestry for Carbon and Ecosystem Management is a comprehensive overview of current research issues, challenges, and case studies in the area of agroforestry. It focuses specifically on carbon source-sink relationship and management through agroforestry practices with the goal of improving overall environmental sustainability. Through expert insights and case studies, the book promotes carbon management, greenhouse gas emission reduction, forest and ecosystem services management, along with relevant sustainable approaches for natural resources conservation. It provides insight into novel approaches for natural resource management with specific attention given to technologies related to carbon capture and management. Agroforestry for Carbon and Ecosystem Management also proposes possible policies and plans for future research and implementation, the latest updates in the area of agroforestry research for sustainability, developments in carbon dynamics and management, addresses the knowledge gap in relation to agroforestry sustainability and agroecosystem management, and explores the application of remote sensing and geospatial technology for agroforestry management. Presents the latest insights in agroforestry and ecosystem management to achieve Sustainable Development Goals (SDGs) for a green future. Includes both theoretical and practical approaches to agroforestry practices. Presents expert insights on the multidisciplinary challenges and opportunities of agroforestry for carbon and other ecological impacts. Explores the integration of technological interfaces for improving the potential of agroforestry practices. Plant Ecology Ernst-Detlef Schulze, Erwin Beck, Klaus Müller-Hohenstein, 2005-02-18 This textbook covers Plant Ecology from the molecular to the global level. It covers the following areas in unprecedented breadth and depth: Molecular ecophysiology, stress physiology, light, temperature, oxygen deficiency, drought, salt, heavy metals, xenobiotics, and biotic stress factors.

Autecology whole plant ecology thermal balance water nutrient carbon relations Ecosystem ecology plants as part of ecosystems element cycles biodiversity Synecology development of vegetation in time and space interactions between vegetation and the abiotic and biotic environment Global aspects of plant ecology global change global biogeochemical cycles land use international conventions socio economic interactions The book is carefully structured and well written complex issues are elegantly presented and easily understandable It contains more than 500 photographs and drawings mostly in colour illustrating the fascinating subject The book is primarily aimed at graduate students of biology but will also be of interest to post graduate students and researchers in botany geosciences and landscape ecology Further it provides a sound basis for those dealing with agriculture forestry land use and landscape management

**Sustainable Intensification for Agroecosystem Services and Management** Manoj Kumar Jharia, Arnab Banerjee, Ram Swaroop Meena, Sandeep Kumar, Abhishek Raj, 2021-10-21 This edited book provides a comprehensive account of the sustainable intensification process through various forms of case studies and scientific approaches studied across the globe It also focuses on the agroecosystem services and their subsequent management for ecological integrity The book helps to understand the interconnection of food nutrition economic growth and environmental security on the planet It provides comprehensive information with photographic illustration and various other forms of scientific databases on sustainable intensification of agroecosystems The book also supports decision making strategies and policy formulation for effective implementation of sustainable intensification towards higher productivity along with maintenance and management of agroecosystem services Proper sustainable intensification of agroecosystem services and their management by maintaining ecological harmony is the future prospect for sustainable development High input agriculture gives rise to a high energy footprint agricultural pollution resource depletion loss of agro biodiversity and decline of human health Through this connection the sustainable intensification approach addresses the advanced food security sustainability and overall prosperity of humankind The book is helpful for both undergraduate and postgraduate students policymakers the farming community as well as the scientific community across the globe to understand the concept of sustainable intensification and its application in relevant fields for proper management of agroecosystems services

**Forest Hydrology and Ecology at Coweeta** Wayne T. Swank, D.A., Jr. Crossley, 2012-12-06 Coweeta is one of the oldest continuously operating laboratories of its type in the world For the first time a complete review and summary of more than 50 years study of the hydrological and ecological responses of baseline and managed Southern Appalachian hardwood forests at Coweeta is now supplied by this volume The long term research approach represents a continuum of theory experimentation and application using watersheds as landscape units of investigation Thus the information encompasses a wide range of interpretations and interests In addition to in depth analyses of terrestrial and stream processes the breadth of coverage includes historical perspectives and relevance of ecosystem science to management needs In a broader sense the Coweeta research effort is considered from a perspective of national



and international forest hydrology and ecology programs

**GBEN 2006 International Conference on Global Built**

**Environment** Global Built Environment Network, 2006-08-31 Proceedings of the GBEN 2006 Conference Global Built Environment Towards an Integrated Approach for Sustainability Hosted by the Department of Built Environment University of Central Lancashire Preston UK Organised jointly by the University of Central Lancashire Edgehill University and National University of Ireland Cork Conference dates 11 12 September 2006

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